

*Modeling and Simulation in  
Science, Engineering and Technology*

# Modeling and Computational Methods for Kinetic Equations

*Pierre Degond  
Lorenzo Pareschi  
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*Editors*

B I R K H Ä U S E R

# Modeling And Computational Methods For Kinetic Equations

**Rachel Sandford**



## **Modeling And Computational Methods For Kinetic Equations:**

Modeling and Computational Methods for Kinetic Equations Pierre Degond, Lorenzo Pareschi, Giovanni Russo, 2004-04-07

In recent years kinetic theory has developed in many areas of the physical sciences and engineering and has extended the borders of its traditional fields of application. New applications in traffic flow engineering, granular media modeling and polymer and phase transition physics have resulted in new numerical algorithms which depart from traditional stochastic Monte Carlo methods. This monograph is a self contained presentation of such recently developed aspects of kinetic theory as well as a comprehensive account of the fundamentals of the theory. Emphasizing modeling techniques and numerical methods, the book provides a unified treatment of kinetic equations not found in more focused theoretical or applied works. The book is divided into two parts. Part I is devoted to the most fundamental kinetic model, the Boltzmann equation of rarefied gas dynamics. Additionally, widely used numerical methods for the discretization of the Boltzmann equation are reviewed: the Monte Carlo method, spectral methods and finite difference methods. Part II considers specific applications: plasma kinetic modeling using the Landau-Fokker-Planck equations, traffic flow modeling, granular media modeling, quantum kinetic modeling and coagulation-fragmentation problems. *Modeling and Computational Methods of Kinetic Equations* will be accessible to readers working in different communities where kinetic theory is important: graduate students, researchers and practitioners in mathematical physics, applied mathematics and various branches of engineering. The work may be used for self study as a reference text or in graduate level courses in kinetic theory and its applications.

*Modeling and Computational Methods for Multi-scale Quantum Dynamics and Kinetic Equations*, 2013. This dissertation consists of two parts: quantum transitions (Part 1) and hydrodynamic limits of kinetic equations (Part 2). In both parts we investigate the inner mathematical connections between equations for different physics at different scales and use these connections to design efficient computational methods for multi-scale problems. Despite its numerous applications in chemistry and physics, the mathematics of quantum transition is not well understood. Using the Wigner transformation we derive semi-classical models in phase space for two problems: the dynamics of electrons in crystals near band crossing points and surface hopping of quantum molecules when the Born-Oppenheimer approximation breaks down. In both cases particles may jump between states with comparable energies. Our models can capture the transition rates for such processes. We provide analytic analysis of and numerical methods for our models demonstrated by explicit examples. The second part is to construct numerical methods for kinetic equation that are efficient in the hydrodynamic regime. Asymptotically the kinetic equations reduce to fluid dynamics described by the Euler or Navier-Stokes equations in the fluid regime. Numerically the Boltzmann equation is still hard to handle in the hydrodynamic regime due to the stiff collision term. We review the theoretical work that links the two sets of equations and present our asymptotic preserving numerical solvers for the Boltzmann equation that naturally capture the asymptotic limits in the hydrodynamic regime. We also extend our methods to the case of multi-species systems.

**Uncertainty Quantification for Hyperbolic and Kinetic Equations** Shi Jin, Lorenzo Pareschi, 2018-03-20 This book explores recent advances in uncertainty quantification for hyperbolic kinetic and related problems The contributions address a range of different aspects including polynomial chaos expansions perturbation methods multi level Monte Carlo methods importance sampling and moment methods The interest in these topics is rapidly growing as their applications have now expanded to many areas in engineering physics biology and the social sciences Accordingly the book provides the scientific community with a topical overview of the latest research efforts

*Landau Equation, Boltzmann-type Equations, Discrete Models, and Numerical Methods* Alexander V. Bobylev, 2024-09-23 This two volume monograph is a comprehensive and up to date presentation of the theory and applications of kinetic equations The second volume covers discrete velocity models of the Boltzmann equation results on the Landau equation and numerical deterministic and stochastic methods for the solution of kinetic equations

**Profit Maximization Techniques for Operating Chemical Plants** Sandip K. Lahiri, 2020-04-30 A systematic approach to profit optimization utilizing strategic solutions and methodologies for the chemical process industry In the ongoing battle to reduce the cost of production and increase profit margin within the chemical process industry leaders are searching for new ways to deploy profit optimization strategies Profit Maximization Techniques For Operating Chemical Plants defines strategic planning and implementation techniques for managers senior executives and technical service consultants to help increase profit margins The book provides in depth insight and practical tools to help readers find new and unique opportunities to implement profit optimization strategies From identifying where the large profit improvement projects are to increasing plant capacity and pushing plant operations towards multiple constraints while maintaining continuous improvements there is a plethora of information to help keep plant operations on budget The book also includes information on Take away methods and techniques for identifying and exploiting potential areas to improve profit within the plant Focus on latest Artificial Intelligence based modeling knowledge discovery and optimization strategies to maximize profit in running plant Describes procedure to develop advance process monitoring and fault diagnosis in running plant Thoughts on engineering design best practices and monitoring to sustain profit improvements Step by step guides to identifying building and deploying improvement applications For leaders and technologists in the industry who want to maximize profit margins this text provides basic concepts guidelines and step by step guides specifically for the chemical plant sector

**Mathematical Reviews** ,2005      **Energy Research Abstracts** ,1987      **From Particle Systems to Partial Differential Equations** Patrícia Gonçalves, Ana Jacinta Soares, 2018-12-29 This book presents the proceedings of the international conference Particle Systems and Partial Differential Equations V which was held at the University of Minho Braga Portugal from the 28th to 30th November 2016 It includes papers on mathematical problems motivated by various applications in physics engineering economics chemistry and biology The purpose of the conference was to bring together prominent researchers working in the fields of particle systems and partial differential equations

providing a venue for them to present their latest findings and discuss their areas of expertise Further it was intended to introduce a vast and varied public including young researchers to the subject of interacting particle systems its underlying motivation and its relation to partial differential equations The book appeals to probabilists analysts and also to mathematicians in general whose work focuses on topics in mathematical physics stochastic processes and differential equations as well as to physicists working in the area of statistical mechanics and kinetic theory     **Mathematics of Computation** ,2006     **Bulletin of the Institute of Mathematics, Academia Sinica** Zhong yang yan jiu yuan. Shu xue yan jiu suo,2007     Numerical Approaches to Combustion Modeling Elaine S. Oran,Jay P. Boris,1991     **Methods in Bioengineering** Arul Jayaraman,Juergen Hahn,2009 This cutting edge volume provides a detailed look at the two main aspects of systems biology the design of sophisticated experimental methods and the development of complex models to analyze the data Focusing on methods that are being used to solve current problems in biomedical science and engineering this comprehensive richly illustrated resource shows you how to design of state of the art methods for analyzing biological systems Implement experimental approaches for investigating cellular behavior in health and disease use algorithms and modeling techniques for quantitatively describing biomedical problems and integrate experimental and computational approaches for a more complete view of biological systems Book Jacket     **Rivista di matematica della Università di Parma** ,2013     *SIAM Journal on Scientific Computing* ,2007     Selected Water Resources Abstracts ,1990     **ICIAM 91** Robert E. O'Malley,1992-01-01 Proceedings Computer Arithmetic Algebra OOP     *Rarefied Gas Dynamics* Andrew D. Ketsdever,E.P. Munz,2003-05-19 The papers in these proceedings were peer reviewed The RGD Symposia are highly interdisciplinary and encompass all aspects of rarefaction and non equilibrium phenomena in gases Rarefied flow phenomena include the mechanics and physics of low density gases and the analysis of flows which take place on a spatial scale comparable to the mean free path of a gas Topics covered include Kinetic theory and transport theory numerical methods including direct simulation Monte Carlo and molecular dynamics gas surface phenomena nano and microscale flows molecular beams atom and molecular optics clusters and aerosols external flows including space and vacuum technologies plume flows hypersonic flows molecular collision dynamics relaxation processes ionized gas flows physics of the space environment plasma processing experimental techniques diagnostics including laser induced fluorescence and electron beams applications With the increase in space activities and microfabrication capabilities new themes have emerged including rarefied hypersonic flows non equilibrium gases plasma processing nano and micro scale flows at relatively high pressures along with parallel and hybrid computational developments Because the RGD Symposia are recognized as the principle forum for the presentation of recent advances in this field it is a must for engineers and scientists in a variety of specialties     Remeshed Smoothed Particle Hydrodynamics for the Simulation of Compressible, Viscous, Heat Conducting, Reacting & Interfacial Flows Andreas Chaniotis,2003     *Indian Journal of Engineering and Materials Sciences* ,2003

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